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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,246	01/23/2004	Donald Allen Pile	R087 1273.1	8048
	7590 12/27/2007 RLYLE SANDRIDGE &	EXAMINER		
P.O. Box 7037 Atlanta, GA 30357-0037			FELTON, AILEEN BAKER	
			ART UNIT .	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			12/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/764,246	PILE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Aileen B. Felton	1793				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10/2/2	<u> 2007</u> .					
2a)⊠ This action is FINAL . 2b)□ This	This action is FINAL . 2b) This action is non-final.					
, <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4)	vn from consideration. s/are rejected.	n.				
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)	. □	VDTO 440)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-16, 18-22, 32-38, 40, 41, 44, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over John, Jr. et al (6,478,903) in view of Boberg (5,654,520) or Calsson (4,853,052).

John, Jr. et al discloses the composition substantially as claimed including an oxidizer such as potassium nitrate from 20-70 % (col. 2, lines 50-55), a secondary explosive such as PETN at 3%(col. 4, lines 35-37 and Table 1), a sensitizer such as tetrazene from 4-11 % (col. 4, lines 37-47), and a metallic fuel such as aluminum from 2-20 % (col. 4, lines 55-65). The composition also includes bismuth sulfide as the fuel or inflammable material in the primer mix (col. 2, lines 45-65) but does not mention the use of bismuth oxide.

Both Boberg (examples) and Calsson (col. 2 table) teach that it is known to use bismuth trioxide in amounts greater than 15 % in a primer composition.

It would have been obvious to one of skill in the art at the time the invention was made to use the bismuth trioxide as taught by Boberg or Calsson with the composition of John, Jr. et al since Boberg or Calsson suggests that the bismuth trioxide catalyst has been found to be applicable to priming mixtures generally and since John, Jr. et al

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suggests the use of a bismuth salt for use in priming compositions. Alternatively, it is prima facie obvious to combine two compositions, each taught for the same purpose to yield a third composition for that very purpose. *In re Kerkhoven*, 205 USPQ 1069, *In re Pinten*, 173 USPQ 801, and *In re Susi*, i69 USPQ 423.

Response to Arguments

3. Applicant's arguments have been fully considered but they are not persuasive. Applicant argues that the prior art does not have similar burn rates to that of the claimed invention. First, these burn rates are not claimed. Second, the burn rate would be an inherent property of a composition as disclosed and taught. Applicant further argues that there is no reason to combine. This is unpersuasive since all references relate to priming compositions and thus it would be obvious to use the teachings of Boberg and Calsson since they indicate that it is known to add a bismuth trioxide catalyst to priming compositions. The Examiner is quite aware that John does not disclose bismuth oxides, however, since Boberg and Calsson both teach the use of bismuth trioxide in a primer composition, it would be obvious to include it in the primer composition as disclosed by John.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aileen B. Felton whose telephone number is 571.272.6875. The examiner can normally be reached on Monday-Friday 6:30-4:00, except alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571.272.1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aileen Felton/

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Primary Examiner Art Unit 1793